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Product Environmental Profile

Smart home weather station





■ NETATMO'S ENVIRONMENTAL COMMITMENTS

- Incorporate environmental management into our industrial sites
- Of all Legrand sites worldwide, over 85% are ISO 14001-certified (sites belonging to the Group for more than five years).
- Offer our customers environmentally friendly solutions

Develop innovative solutions to help our customers design more energy efficient, better managed and more environmentally friendly installations

• Involve the environment in product design and provide informations in compliance with ISO 14025

Reduce the environmental impact of products over their whole life cycle.

Provide our customers with all relevant information (composition, consumption, end of life, etc.).



■ REFERENCE PRODUCT ■

Reference Product NWS01-EU Smart home weather station	Function	To perform for 10 years the measurements of indoor and outdoor atmospheric parameters like temperature, humidity, pressure, CO ₂ concentration and sound intensity, alerting when you need to air out your home to bring down its pollution levels, recording measurements through dedicated App and High speed internet connection. Wireless connection among the modules up to 100 m, possibility to integrate the device with additional connected accessories like 3 Smart Indoor modules, 1 Smart Rain Gauge, 1 Smart Anemometer (sold separately).					
	Reference Product						
Smart nome Weather station							

The company reserves the right to change specifications and designs without notice. All illustrations, descriptions, dimensions and weights in the document are for guidance and cannot be held binding on the company.



■ PRODUCTS CONCERNED ■

The environmental data is representative of the following products:

NWS01-EU

NWS01-EC, NWS01-US, NWS01-P, NWS01-IB, NWS-R-EC





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■ CONSTITUENT MATERIALS I

This Reference Product contains no substances prohibited by the regulations applicable at the time of its introduction to the market. It respects the restrictions on use of hazardous substances as defined in the RoHS directive 2011/65/EU amended by delegated directive (EU) 2015/863, and its amendment 2017/2102/EU.

Total weight of	
Reference Product	845 g (all packaging included)

Plastics as % of weight		Metals as % of weight		Other as % of weight			
ABS	13,4 %	Aluminum	20,3 %	External power supply	7,0 %		
Polyamide	0,4 %	Steel	1,2 %	Electronic cards	3,1 %		
				Batteries / Accumulators	2,9 %		
				Cables / Electric wires	2,6 %		
				Paper	1,7 %		
				Other electronic components			
		Packaging as % of weight	t				
Polyethylene	0,5 %			Paper / Cardboard	41,7 %		
				Wood	3,8 %		
Total plastics	14,3 %	Total metals	21,5 %	Total others	64,2 %		

Estimated recycled material content: 23 % by mass.



■ MANUFACTURE ■

This Reference Product comes from a site that has received ISO14001 certification.



■ DISTRIBUTION ■

Products are distributed from logistics centres located with a view to optimize transport efficiency. The Reference Product is therefore transported over an average distance of 3500 km by road from our warehouse to the local point of distribution into the European market. Packaging is compliant with european directive 2004/12/EU concerning packaging and packaging waste. At their end of life, its recyclability rate is 99 % (in % of packaging weight).



■ INSTALLATION ■

For the installation of the product only standard tools are needed.



USE

Under normal conditions of use, during the 10 years considered, it is necessary to proceed 8 times to batteries change (model AAA - alkaline).



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■ END OF LIFE I

The product end of life factors are taken into account during the design phase. Dismantling and sorting of components or materials is made as easy as possible with a view to recycling or failing that, another form of reuse. This product falls within the scope of the WEEE directive (2012/19/EU). Therefore it must be processed through local WEEE recycling/recovery channels.

• Elements to process specifically:

In accordance with the requirements of this Directive, the following components must be removed and sent to specific channels for processing which comply with the WEEE Directive 2012/19/EU:

- electronic cards more than 10 cm²: 26 g
- alkaline batteries: 24 g
- external electric wires: 22 g

• Recyclability rate:

Calculated using the method described in technical report IEC/TR 62635, the recyclability rate of the product is estimated at 85 %. This value is based on data collected from a technological channel operating on an industrial basis. It does not pre-validate the effective use of this channel for the end of life of this product.

Separated into:

- plastic materials (excluding packaging)
- metal materials (excluding packaging)
- other materials (excluding packaging)
- packaging (all types of materials)
: 45 %



■ ENVIRONMENTAL IMPACTS |

The evaluation of environmental impacts examines the stages of the Reference Product life cycle: manufacturing, distribution, installation, use and end of life. It is representative of products marketed and used in Europe in an electrical installation in compliance with the associated product standards.

For each phase, the following modelling elements were taken in account:

Manufacture	Materials and components of the product, all transport for the manufacturing, the packaging and the waste generated by the manufacturing.				
Distribution	Transport between the last Group distribution centre and an average delivery point in the sales area.				
Installation	The end of life of the packaging.				
Use	 Product category: PSR-0005-ed2-EN-2016 03 29 - §3.13 «Other equipments - Active products». Use scenario: ten-year working life. Active mode power: 0,56 W for 100 % of the time. This modelling duration doe not constitute a minimum durability requirement. Energy model: Electricity Mix, Europe 27 - 2008. Maintenance: 8 batteries changes in 10 years 				
End of life	The default end of life scenario maximizing the impacts.				
Software and database used	EIME V5 and its database «CODDE-2018-11»				





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■ SELECTION OF ENVIRONMENTAL IMPACTS ■

	Total for I	Life cycle	Raw material a manufact		Distributi	on	Installatio	on	Use		End of life	e
Global warming	3.31E+01	kgCO ₂ eq.	8.07E+00	24%	1.47E-01	< 1%	2.38E-02	< 1%	2.48E+01	75%	4.42E-02	< 1%
Ozone depletion	3.44E-06	kgCFC-11 eq.	1.73E-06	50%	2.98E-10	< 1%	1.63E-10	< 1%	1.72E-06	50%	9.08E-10	< 1%
Acidification of soils and water	1.25E-01	kgSO ₂ eq.	2.30E-02	18%	6.61E-04	< 1%	1.15E-04	< 1%	1.01E-01	81%	1.73E-04	< 1%
Water eutrophication	1.29E-02	kg(PO ₄)³- eq.	5.97E-03	46%	1.52E-04	1%	1.18E-04	< 1%	6.40E-03	50%	2.24E-04	2%
Photochemical ozone formation	7.25E-03	kgC ₂ H ₄ eq.	1.58E-03	22%	4.70E-05	< 1%	8.16E-06	< 1%	5.60E-03	77%	1.34E-05	< 1%
Depletion of abiotic resources - elements	4.18E-03	kgSb eq.	4.09E-03	98%	5.89E-09	< 1%	1.04E-09	< 1%	9.60E-05	2%	2.59E-09	< 1%
Total use of primary energy	6.22E+02	МЈ	1.24E+02	20%	2.08E+00	< 1%	3.26E-01	< 1%	4.95E+02	80%	5.01E-01	< 1%
Net use of fresh water	8.76E+01	m³	4.49E-01	< 1%	1.32E-05	< 1%	7.33E-06	< 1%	8.72E+01	99%	3.17E-05	< 1%
Depletion of abiotic resources - fossil fuels	3.48E+02	МЛ	6.24E+01	18%	2.07E+00	< 1%	3.17E-01	< 1%	2.82E+02	81%	4.59E-01	< 1%
Water pollution	2.44E+03	m³	1.38E+03	57 %	2.42E+01	< 1%	3.67E+00	< 1%	1.03E+03	42%	5.34E+00	< 1%
Air pollution	1.93E+03	m³	6.37E+02	33%	6.03E+00	< 1%	2.87E+00	< 1%	1.28E+03	66%	4.53E+00	< 1%

The values of the 27 impacts defined in the PCR-ed3-EN-2015 04 02 are available in the digital database of pep-ecopassport.org website.

For products covered by the PEP other than the Reference Product, the environmental impacts of each phase of the lifecycle are calculated as below:

for the codes having the power supply with specific standard plug, the environmental impacts of each life cycle phase are assimilated to those of the Reference Product;

for the codes having the universal power supply, the environmental impacts of each life cycle phase are assimilated to those of the Reference Product except for the End Of Life phase, for which the impacts have to be multiplied by the coefficient 1,1.

Registration number: LGRP-01377-V01.01-EN	Drafting rules: «PEP-PCR-ed3-EN-2015 04 02» Supplemented by «PSR-0005-ed2-EN-2016 03 29»
Verifier accreditation N°: VH02	Information and reference documents: www.pep-ecopassport.org
Date of issue: 05-2021	Validity period: 5 years
Independent verification of the declaration and data, in con Internal ☑ External ☐	npliance with ISO 14025 : 2010
The PCR review was conducted by a panel of experts chaire	ed by Philippe Osset (SOLINNEN)
PEP are compliant with XP C08-100-1 : 2016 The elements of the present PEP cannot be compared with	elements from another program
Document in compliance with ISO 14025 : 2010: «Environme Type III environmental declarations»	
Environmental data in alignment with EN 15804: 2012 + A1	: 2013